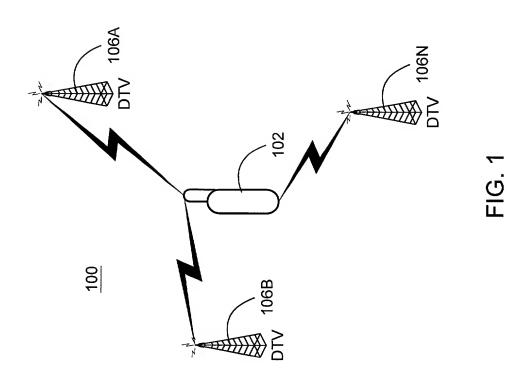
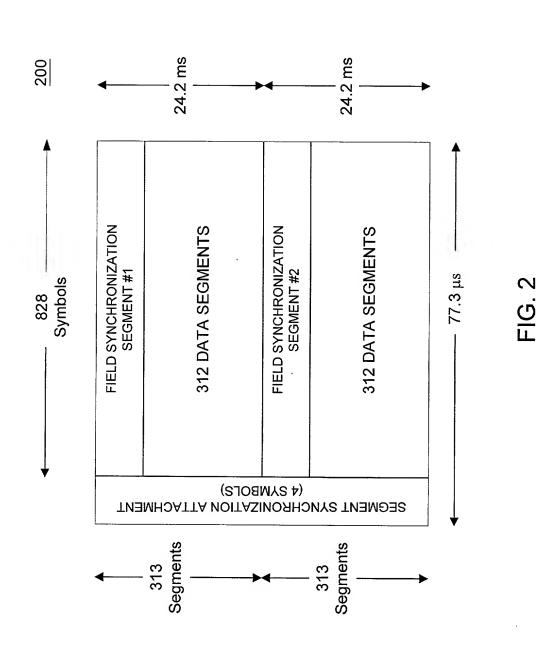
Robust data transmission using broadcast digital television signals; Inventors: JIMMY K. OMURA et al.; Docket No.: 22845-05952



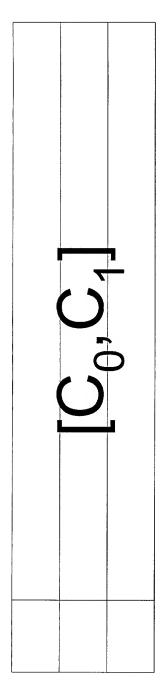


310 Encode digital data as codewords 320 Replace data segments in DTV signal with codewords 330 Broadcast DTV signal 340 Receive broadcast DTV signal 350 Recover digital data

FIG. 3

Robust data transmission using broadcast digital television signals; Inventors: JIMMY K. OMURA et al.; Docket No.: 22845-05952

[C₀, C₁] $[C_0\,,\,C_1\,\ldots\,C_7]$ $[C_0, C_1]$ [C₀, C₁]



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$[C_0 \cdots C_{N-1}]$
°,0 · · · C _{N-1}] [(
$\begin{bmatrix} C_0 \cdots C_{N-1} \end{bmatrix}$
$\begin{bmatrix} c_0 \cdots C_{N-1} \end{bmatrix}$ [C
C _{N-1}] [C
xxx [C ₀

312 DATA SEGMENTS

FIELD SYNCHRONIZATION SEGMENT #2

SEGMENTS 10-50 FOR LOW DATA RATE CHANNEL

FIELD SYNCHRONIZATION SEGMENT #1

FIELD SYNCHRONIZATION SEGMENT #1	SEGMENTS 10-50 FOR LOW DATA RATE CHANNEL		FIELD SYNCHRONIZATION SEGMENT #2	312 DATA SEGMENTS
SEGMENT SYNCHRONIZATION ATTACHMENT (4 SYMBOLS)				

SEGMENT SYNCHRONIZATION ATTACHMENT (4 SYMBOLS)

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Frame 2

FIELD SYNCHRONIZATION SEGMENT #1

312 DATA SEGMENTS

FIELD SYNCHRONIZATION SEGMENT #2

FIELD SYNCHRONIZATION SEGMENT #1	312 DATA SEGMENTS	FIELD SYNCHRONIZATION SEGMENT #2	SEGMENTS 600-624 FOR LOW DATA RATE CHANNEL	
SEGMENT SYNCHRONIZATION ATTACHMENT (4 SYMBOLS)				

SEGMENT SYNCHRONIZATION ATTACHMENT (4 SYMBOLS)

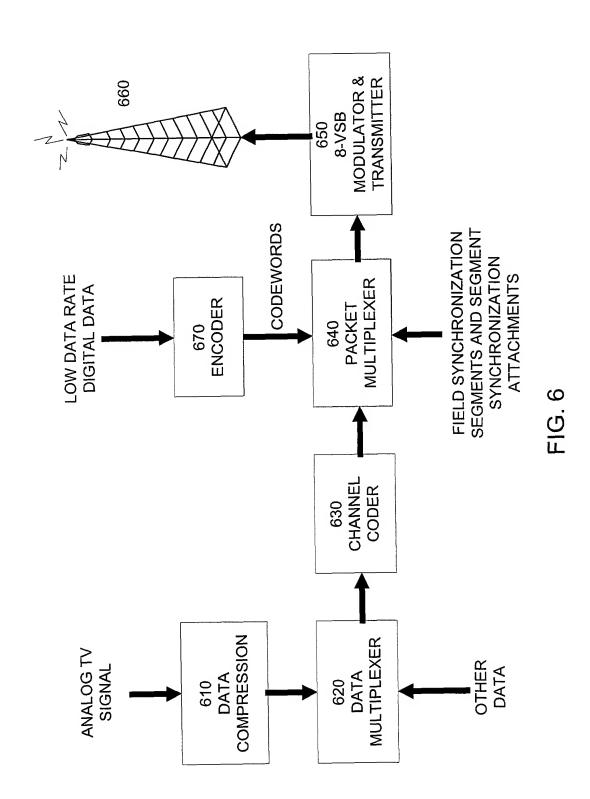
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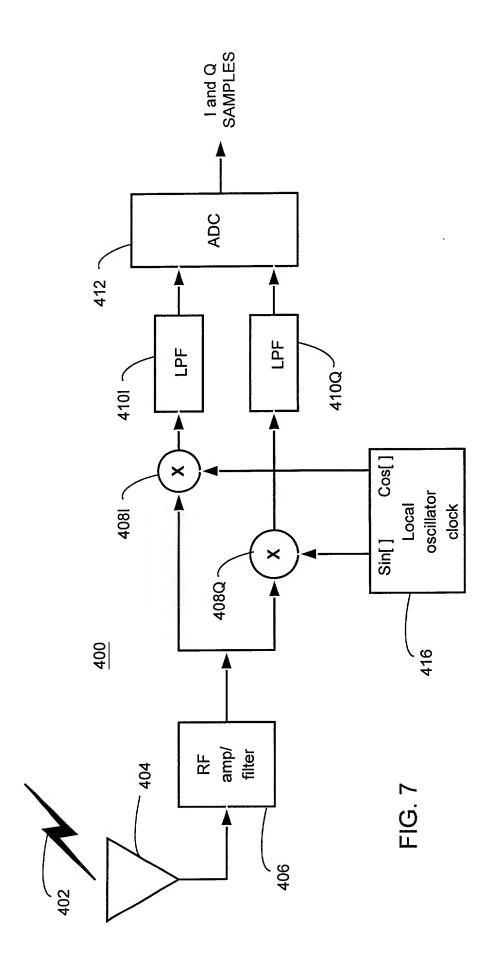
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Robust data transmission using broadcast digital television signals; Inventors: JIMMY K. OMURA et al.; Docket No.: 22845-05952

SEGMENTS 533-597 FOR LOW DATA RATE CHANNEL



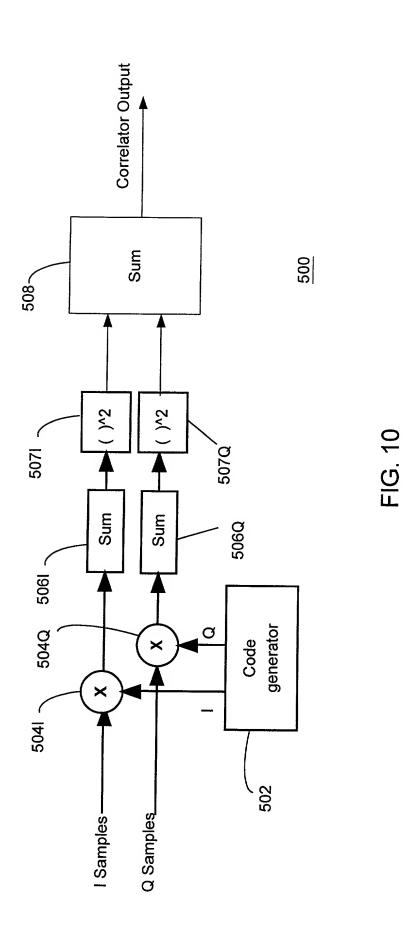


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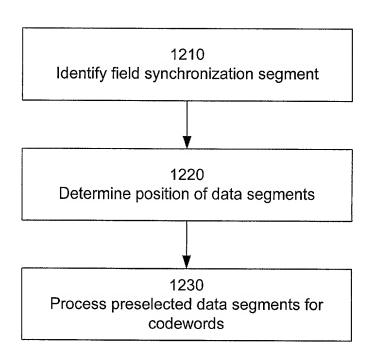


FIG. 11

Robust data transmission using broadcast digital television signals; Inventors: JIMMY K. OMURA et al.; Docket No.: 22845-05952

